USER'S MANUAL

FlyNet 2 variometer

FlyNet App for smartphones and tablets

Android version 1.30

FlyNet

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www.asinstrument.ch
www.flynet-vario.com

CONTENTS

OVERVIEW	3
FLYNET 2 ALTI/VARIO	3
CONTROL SCREEN	4
MAP SCREEN	5
DATA SCREEN	6
SETTINGS SCREENS	7
CONNECTION SCREEN	8
RECORDED FLIGHTS	8
FLYNET TRACK	9
OFFLINE MAPS	10
SAFETY	11

OVERVIEW

This document presents the various elements of the FlyNet solution :
:: the FlyNet 2 variometer
:: the Android FlyNet app
:: the FlyNet Track network

Additional information is aslo available on our website :

www.asinstrument.ch
www.flynet-vario.com

FlyNet 2 vario

In order to start, press 1-2 seconds the POWER ON/OFF button of the variometer. Used as a stand-alone without Bluetooth connection, it is a true audible variometer.

To set a connection, download the free FlyNet app on Google Play. Once the app installed, launch it and press the «FlyNet Variometer» button which is red whilst no connection is established.

The first time, you have to scan the devices for pairing to the FlyNet variometer once it appears in the list. **The Bluetooth code association is «0000»**. Afterwards, the app will automatically try to connect to your FlyNet variometer once launched.

FlyNet 2 variometer

:: Resolution: 10 cm
:: Maximum altitude: 9'000 m
:: Sampling rate: 50 samples / s
:: Autonomy: 30 hours
:: Bluetooth 2.1

ON/OFF button
(press during 1-2 seconds).
The button blinks when the variometer is activated and stays on while charging.

Mini USB connector
for charging the module battery.
When full charge is reached, the button blinks.

CONTROL SCREEN

Before starting a flight, the three indicators in the top right of the screen should be green to enjoy whole functionalities of the FlyNet app.

If your indicators are red, press on it to see how to activate / connect the associated functionality.

To return to this screen, use your Smartphone return key.

Your Smartphone menu key enables you to access the navigation controls and review the recorded flights inside the device.

See «CONNECTION SCREEN», and «RECORDED FLIGHTS» on page 8.

Connection established

Green indicates that the associated functionality is activated / connected..

Waiting for connection

Yellow indicates that the app is trying to activate / connect to the associated functionality.

Not connected in / off

Red indicates that the associated functionality (GPS, FlyNet Track or vario) is not activated..

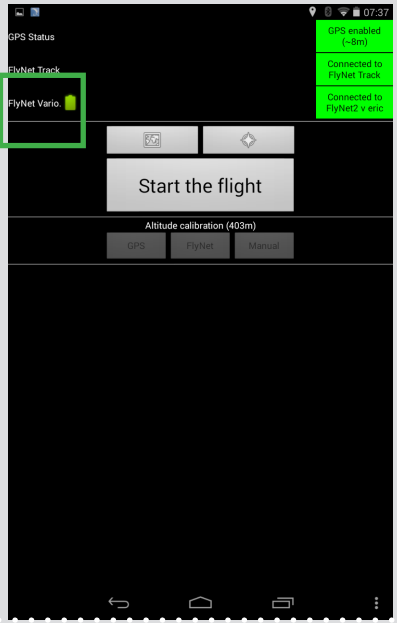
:: The GPS must be activated to start tracking a flight and share your location.

:: FlyNet Track must be activated for sharing data on the network.

:: The variometer connection is mandatory for recording a flight.

Variometer battery status

Battery level and charging indicator.



This button displays the MAP SCREEN (page 5).

This button displays the DATA SCREEN (page 6).

Start the Flight

Press the button which displays then «Waiting for Take-off».
The recording ends by using this button or automatically if set in .«Variometer Config.» (page 7).

GPS calibration

Press this button to calibrate the altitude through the GPS. This option is available if the GPS provides an altitude and if the FlyNet vario is connected.

FlyNet calibration

Press this button to get the exact altitude according to your GPS position and the FlyNet elevations database. The three indicators must be green to use this feature.

Manual calibration

It displays a window allowing to calibrate the altitude manually. This option is available only if a FlyNet vario is connected.

MAP SCREEN

This screen is divided in a main parameters panel and an interactive map.

FlyNet users and shared thermals are displayed on the map.

A distinctive color lets you know the relative altitude of the detected thermals and other pilots using FlyNet connected in public mode.

Altitude of the FlyNet variometer.

V. speed Vertical speed of the FlyNet variometer.

- Positive vertical speed
- Negative vertical speed

H. speed Horizontal speed (GPS).

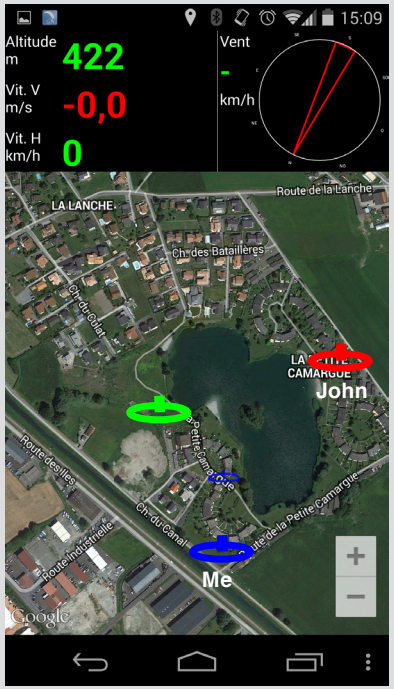
Joe, John Pilots using FlyNet solution found in your area.

Colours Definition of thermals and other FlyNet pilots.

The object is located **100 m below**

The object is located **100 m above**

The object is located **at the same altitude**



Compass indicated by a red display integrated and connected to the smartphone or tablet.

Wind direction and speed indicated by a yellow display. It is necessary to initially make two (2) full 360° turns for the data to be calculated.

When the vario goes up more that 1 m/s, a circle appears to indicate a thermal. This data will be shared with the other FlyNet pilots in your area.

The diameter of the circle is based on the powerfulness of the thermal detected.

Your route is colored according to the FlyNet variometer vertical speed :

- **Positive** vertical speed
- **No vertical speed**
- **Negative** vertical speed

Your location is always displayed in blue. The map will be automatically adjusted in order to keep you in the center of the map when you are moving.

DATA SCREEN

This screen displays flight information and provides access to the statistics.

Altitude of the FlyNet variometer.

V. speed
Instantaneous vertical speed..
Positive vertical speed
Negative vertical speed

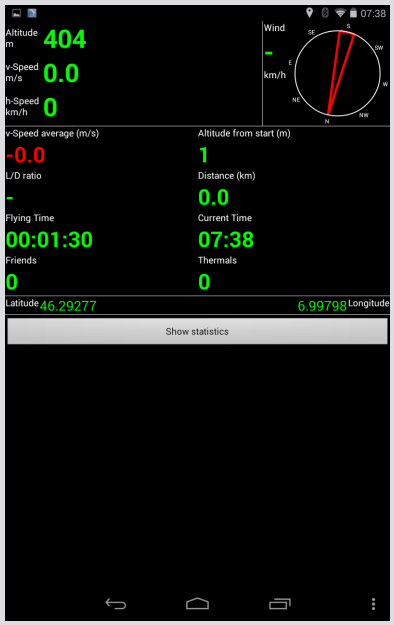
H. speed
Horizontal speed (GPS).

V. speed average
Average vertical speed (6, 12 or 18 s)

L/D ratio
Instantaneous glide ratio.

Flight time
Time elapsed since the takeoff.

Pilots Number of FlyNet pilots detected in your area.



Show statistics This button displays the flight statistics.

Compass indicated by a red display integrated and connected to the smartphone or tablet.

Wind direction and speed indicated by a yellow display. It is necessary to initially make two (2) full 360° turns for the data to be calculated.

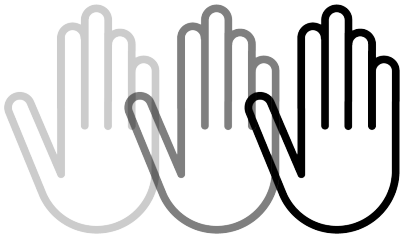
Altitude from start Gap between current and altitude on takeoff.

Distance Flight distance.

Time Current time (the one of the smartphone / tablet).

Thermals Total of thermals detected and received.

The proximity sensor allows switching quickly between the MAP SCREEN to the DATA SCREEN simply by passing your hand over the screen even if you are wearing gloves (this option is not be available on certain smartphones or tablets).



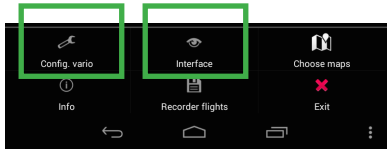
A touch pad surface on the top of the screen allows switching quickly between the MAP SCREEN to the DATA SCREEN.

SETTINGS SCREENS

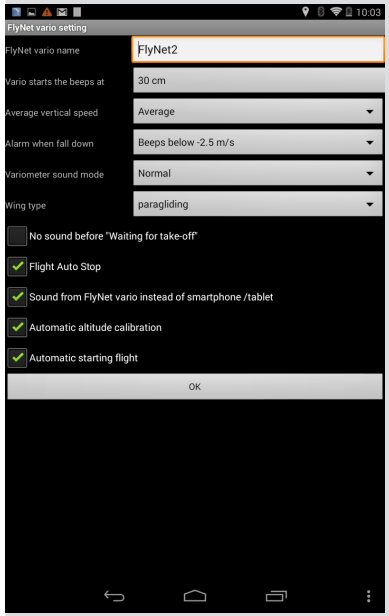
This page describes the windows «Vario config.» and «User interface setting».

Accessible through the displayed menu below, and using the «3 points» key/button on your Smartphone or Tablet.

On Samsung Galaxy S5, the «menu» button is hidden «under» the multitasking button on the left. Just keep pressing the button for a few seconds to display the FlyNet settings window!



Vario config.



Flight auto stop

The flight recording ends when movement is no longer detected for approximately 30 seconds (depending on GPS strength signal). The automatic stop is desabled during the first 5 minutes of the flight's recording.

No sound before «Waiting for take-off»

To avoid unwanted sound annoyance during the takeoff phase.

Automatic starting flight

Flight recording starts as soon as a 8 km/h speed is reached. Restart the FlyNet App if you want an automatic start for the next flight.

Automatic altitude calibration

As soon as you press «Start the Flight» (manual or Automatic start), a calibration is done.

If Flynet Track connected, a FlyNet calibration is done. Otherwise, it is a GPS calibration.

Device Name

Enables to customize your FlyNet variometer name.

Variometer sensitivity

Defines the variometer's sensitivity. If the selection is 30 cm, the app sound is triggered when the variometer increases its altitude gain by 30 cm increments.

Average vert. speed

Enables to select alternative displayed average vertical ascent duration speeds on DATA SCREEN. The available durations are: 6 s, 12 s and 18 s.

Sink alarm / Negative Speed

Selects the beeps threshold for negative speeds. Possibilities : -1, -2.5, -3.5, -4.5 m / s or never.

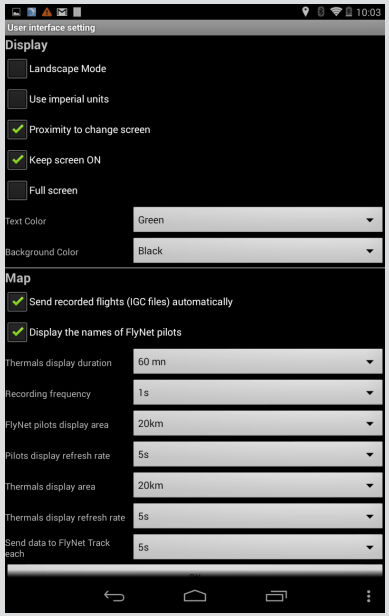
Variometer sound mode

Selects the beeps sound type : normal, analogic or vibration (this option is not be available on certain smartphones or tablets).

Sound from FlyNet vario instead of smartphone/tablet

If you need the smartphone/tablet only to record the flight.

Interface setting



Send recorded flight (IGC file) automaticaly

Flights made without internet connection are transmitted to FlyNet Track as soon as a network link is established.

Display user name

If enabled, FlyNet pilots names are displayed on the map depending on FlyNet pilots display area.

Keep screen ON

To permanently display the smartphone/tablet screen.

Full screen

Displays the application in full screen mode (it may become a problem to combine another variometer because the PIN code window will no longer be visible).

Landscape mode

Pivots the screen 90°.

Proximity sensor

To quickly switch between the MAP SCREEN and the DATA SCREEN simply swipe your hand over the screen even if wearing gloves (this option is not be available on certain smartphones or tablets).

Use imperial units

for display in ft (feet), kt (knots), ft/min (feet per minute), and NM (Nautical Miles).

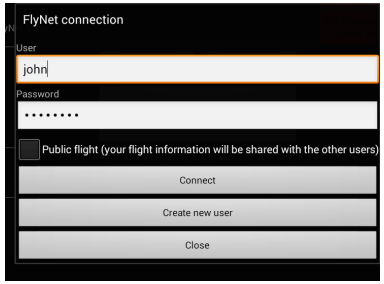
CONNECTION SCREEN

This screen is accessible by pressing on the FlyNet Track indicator from the CONTROL SCREEN.

This screen allows you to connect on FlyNet Track..

A FlyNet Track account (free of charge) is mandatory for sending your flights tracking to share your position and thermals.

A FlyNet Track connexion is required for sending your flights tracking and to share your position and thermals.



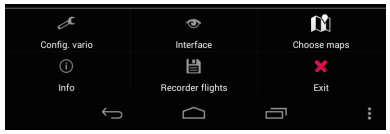
Public flight: Enable this option if you want to be visible by the other FlyNet pilots. If this option is enabled, your flight will be visible on the FlyNet Track list from the web.

Connect Press after entering your ID (Identification), and your PW (Pass Word).

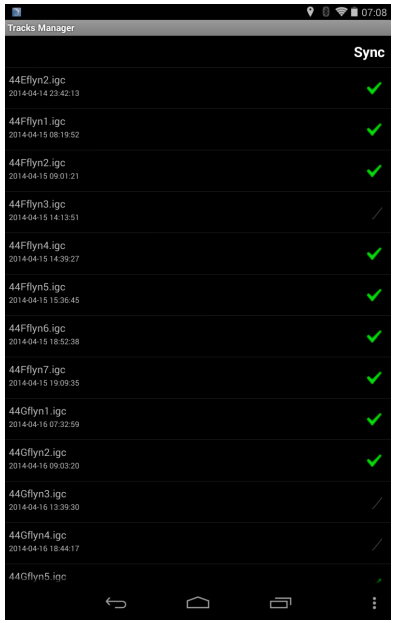
Create new user: Press to create a new account on FlyNet Track.

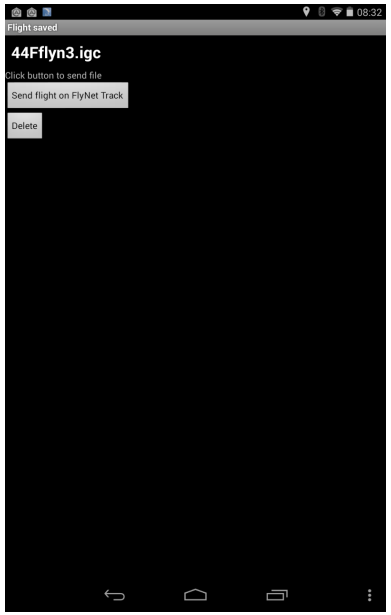
RECORDED FLIGHTS

This screen displays all recorded flights. It is accessible using the pictogram « 3 points ».



When you select a flight, this screen will appear and let you delete or send it on FlyNet Track.





In case of internet connection problem (or not connected to FlyNet Track),

the flight data will be stored inside the smartphone/tablet

in order to send them later on FlyNet Track as soon as an internet connection is established, if the option is validated in the «User Interface» (see on page 7).

FLYNET TRACK

In flight

The FlyNet network provides the possibility for the pilots to exchange data together in LIVE (during their flights !)

:: positions, intensities and relative heights of the thermal currents

:: positions, altitude and name of the other FlyNet pilots.

An internet connection is required to share informations LIVE (during the flight).

If not connected to the internet, the flights data is saved inside the smartphone or tablet.

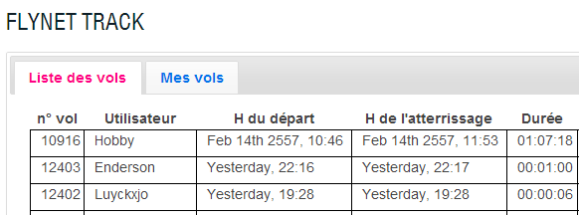
Flights made without an internet connection are automatically transmitted to Flynet Track as soon as a network link is established (via GMS or Wifi), if the option is validated in the «User Interface» (see on page 7).

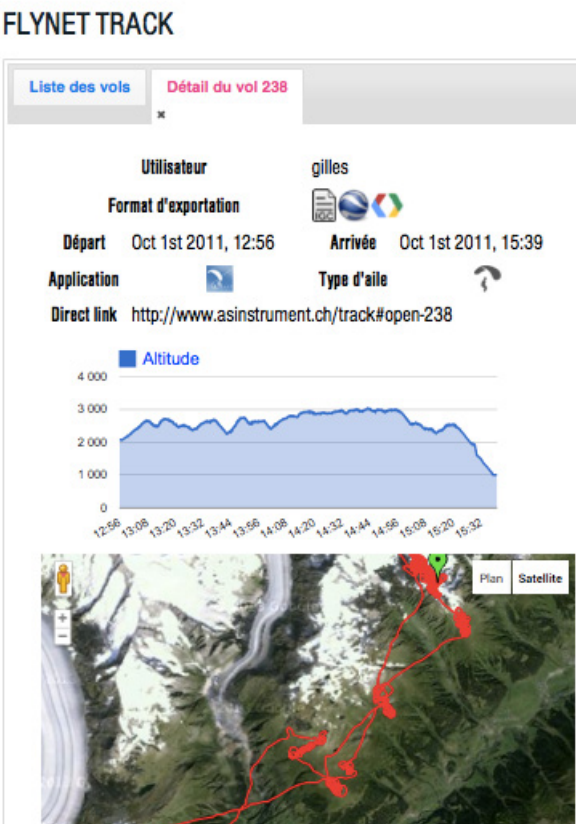
After your flight

The Flynet Track webpage gives the possibility to review and analyze your flights and all the public flights :

www.asinstrument.ch/track
www.flynet-vario.com/track

Available formats for flights recorded on Flynet Track : IGC or KML.


FLYNET TRACK
Liste des vols
Mes vols
n° vol | Utilisateur | H du départ | H de l'atterrissage | Durée
10916 | Hobby | Feb 14th 2557, 10:46 | Feb 14th 2557, 11:53 | 01:07:18
12403 | Enderson | Yesterday, 22:16 | Yesterday, 22:17 | 00:01:00
12402 | Luyckxjo | Yesterday, 19:28 | Yesterday, 19:28 | 00:00:06



Flights list tab

Shows all the public fights of all users.

My flights tab

Shows only the flights you have made. It is necessary to log onto your FlyNet Track account to access this tab.

Flight detail tab

Gives you a quick overview of the flight. We recommand to use the Google Earth link (KML format) in order to see your flight with an high precision. Flights recorded on Flynet Track are also available in IGC format.

FlyNet pilots flights LIVE

When the LIVE logo is blinking, you can use the Google Earth file to see the pilot is live.

Click the file's icon to open it in Google Earth (free of charge) which must first be installed in your computer.

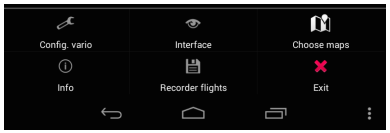
If you have a LiveTrack24 account and set the option in your FlyNet Track account, the flights are automatically visible on www.livetrack24.com

ATTENTION
A FlyNet Track account (free of charge) is mandatory for sending your flights tracking to share your position and thermals.

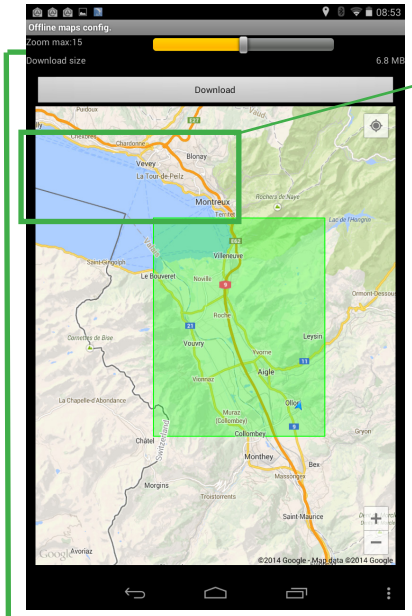
New OFFLINE MAPS

Options access using the «3 points» pictogram.

Select
«Choose maps»



Then toggle «maps in offline mode» on «Yes»



Choose a map type.

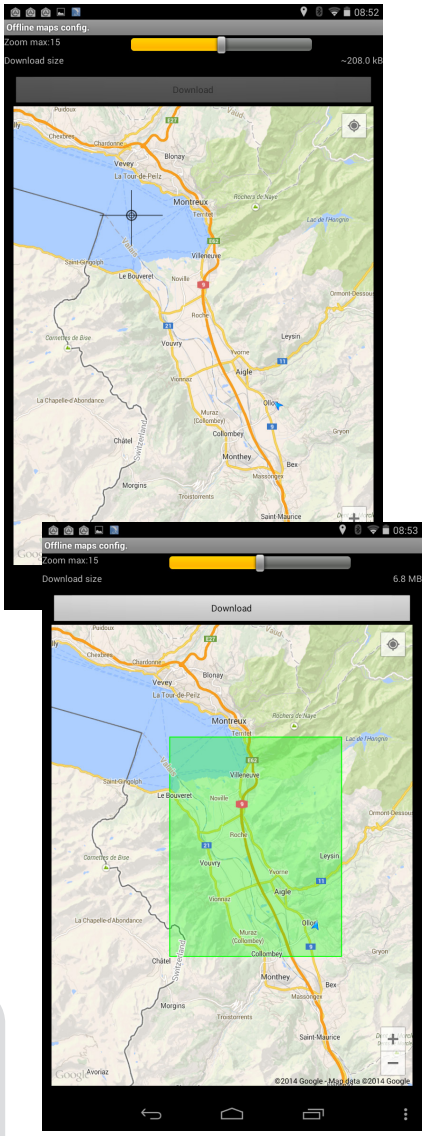
«Yes» indicates that only the maps preliminarily uploaded are displayed, without the need for an internet connection.

Note :
only the MapQuest maps are available and can be used without an internet connection.

After zooming on the region, select the map to download by clicking two points that will define the diagonal of the map portion. The area thus defined then turns green.

Adjust the zoom level based on your smartphone/ tablet's available memory, The map selected size is indicated.

Launch the downloading procedure.
All is seamlessly processed in the background : you still can use another application during the download sequence, but do not cancel the FlyNet connection during that time.



Note :
The green area is downloaded to the selected resolution along with larger maps at all lower zoom levels.

Option purchase «Offline maps»

When first validated with the «Yes», a window displays the purchase option for « Offline-maps».

A one time purchase for unlimited downloads or file size !

SAFETY

ATTENTION

The module FlyNet is an instrument of assistance to the free flight and not a reference tool. Consequently, the parameters and values shown should be considered as a representation that may be incorrect and not as reference values for the control.

It is your own responsibility to evaluate the conditions and flight parameters.

Advanced Sport Instrument does not assume responsibility and expressively disclaims liability for loss, damage injury or accidents when using the module..

See also :
www.asinstrument.ch/disclosure
www.flynet-vario.com/disclosure

:: Do not expose directly to the wind during use.
The values measured can find them disturbed..

:: Do not expose to water.

:: Do not disassemble or open thedevice. In this case the warranty is void..

:: Do not put the unit in locations subject to extreme tem- peratures.

:: Do not place heavy objects on the device.

:: Do not get in the grease, dust, oil, solvents or other aerosols with the device.

:: Do not subject the unit to strong vibrations or violent shocks.

INF
OS

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